25X1

31 October 1966
552 - OD-307
LHB:rf

25X1 Subject: [redacted] Project 552 and 552A
Progress Report - September 1966

Gentlemen:

Enclosed is a copy of [redacted] Progress Report on Projects 552 and 552A for the period September 1966. Also included is our Financial Report for the month of September. 25X1

Very truly yours,

[redacted] 25X1

Executive Vice President

LHB:rf
Encl: (1) P.R.
(2) F.R.

Cert. #855518

DECLASS REVIEW by NGA

PROGRESS REPORT

For

VERSATILE, HIGH PRECISION STEREO

POINT TRANSFER DEVICE

Period Covered:	September 1966
Dated:	21 October 1966
Job No.:	#552, #552A
Document No.:	OD-306

PROGRESS REPORT
For
VERSATILE, HIGH PRECISION STEREO
POINT TRANSFER DEVICE

Progress Report 552, 552A for September 1966

The following has been the work on these systems:

552

A large effort has been made to get system operating by 1 October 1966. Laser power supplies, laser heads, interconnecting cables, marking reticle drive and general adjustment and cleanup have been completed. System is now operable although eyepiece covers have not been replaced.

Two separate calibration runs were made and documented. The customer is studying results of the repeatability and measurement accuracy tests. In general, only one Y axis appears to exceed original design objective tolerance. A study is under way to determine means to straighten the ways with a tentative conclusion that much more down time can be expected to get the one Y axis error down by a factor of two. Much of the down time will be in restoring adjustments in optics and mechanism and refining way straightness.

Future work will depend on decision in measurement accuracy and shakedown problems.

552A #103

To satisfy film scratching complaints, another trip was

made with little improvement able to be made. New parts have been fabricated for further improvement and will be installed early in October. At that time other problems with lens turret indexing and scanning drive intermittency will be further investigated with the hope of getting the system working.

552A #104

Motorized film drive has 70% of circuit designed with mechanical layout yet to be finalized. Basic configuration will now be like proposed drive with potentiometer sensor replacing photoelectric scheme. This change was brought about by electrical interfacing problems between photo cells, motor drive electronics and mechanism. The drive motor circuit will have tachometer feedback to give smooth response with constant torque through approximately 400:1 wide speed range. With anticipated loads a 500 foot spool of film should be rewound in about 1 1/2 minutes. Design should be completed in October with fabrication and installing finished in November.

Image alternator is in shop with fabrication due in October. Installation should be complete early in November.

Enclosure

1) Financial Report

Next 1 Page(s) In Document Exempt

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